

Claims: Claims 5, 9, and 12-21 are amended in this office action response. Additions to amended claims are indicated by underlining. Deletions to amended claims are indicated by strikethroughs. No claims are canceled in this office action response. No claims are added in this office action response. Upon entry of this amendment, claims 1-21 will be pending in this application.

CLAIM LISTING:

1. (previously presented) A system for color measurement for a color hard copy apparatus, having a print media transport path, comprising:
 - an illumination source adjacent to said path;
 - a plurality of photodetectors adjacent to said path; and
 - test strips each of a single color formed on a sheet of media traveling said path, each strip having a geometric configuration such that each of said photodetectors detects substantially discrete regions of that strip.
2. (original) The system as set forth in claim 1, further comprising:
said photodetectors having predetermined spectral responses.
3. (original) The system as set forth in claim 1 wherein the illumination source is broadband.
4. (original) The system as set forth in claim 1, further comprising:
a white calibration target mounted within the field of view of all of said sensors.
5. (currently amended) A color hard copy apparatus, having a mechanism generating to generate a pattern of test color strips, each of an intended uniform color, on media transported along a predetermined path through said apparatus, comprising:
 - adjacent said path downstream of the mechanism, a broad band illumination source mounted for illuminating said color strips; and
 - adjacent said path downstream of the mechanism, an array of sensors, each of

the sensors mounted for detecting color properties of a unique one of discrete areas of each of the color strips.

6. (original) The apparatus as set forth in claim 5, comprising:
said sensors having predetermined spectral responses.

7. (original) The apparatus as set forth in claim 5 wherein the illumination source is broadband.

8. (original) The apparatus as set forth in claim 5, further comprising:
a white calibration target mounted within the field of view of all of said sensors.

9. (currently amended) A method for measuring actual color produced by a color hard copy device comprising ~~the steps of~~:

- a) illuminating with broad band light, a region of a color test pattern generated by the device, ~~wherein said region has the color pattern having a first color generated by the device;~~
- b) discretely sensing actual color characteristics of discrete areas of said region using each of a plurality of sensors for the sensing of a unique one of the discrete areas; and
- c) storing data representative of said color characteristics.

10. (original) The method as set forth in claim 9, comprising the further steps of:
printing a plurality of intended colors in addition to said first color with said device, and
repeating steps a)-c) for each of the plurality of intended colors other than said first color.

11. (original) The method as set forth in claim 9, comprising the further step of:
prior to steps a) - c), calibrating each of said sensors using a white calibration target.

12. (currently amended) A hard copy apparatus, comprising:

a printing engine operable to form a ~~test pattern~~ of color strips on a print medium, each ~~test of the color strips~~ being of an intended uniform color; and

an array of sensors located downstream from the printing engine along a direction of travel of the printing medium, the array of ~~sensors~~ being oriented along an axis ~~that is generally parallel to an orientation of the test color strips~~, wherein as each ~~test of the color strips~~ passes within view of the array of ~~sensors~~, each ~~of the sensors~~ is positioned to ~~allow detection of a unique one of a plurality of substantially discrete regions of that test on each of the color strips~~.

13. (currently amended) The hardcopy apparatus of Claim 12, further comprising an illumination source positioned to project incident light to illuminate ~~each test strip the color strips as that test strip color strips passes~~ within view of the sensor array.

14. (currently amended) The hardcopy apparatus of Claim 12, wherein each of the sensors comprises a photodetector operable to measure a spectral characteristic of the unique one of the plurality of substantially discrete regions as the each test strip as the test color strip passes within view of the sensor array ~~is a photo~~.

15. (currently amended) The hardcopy apparatus of Claim 14, further comprising a means for comparing a measured spectral characteristics of the test color strips with intended spectral characteristics of the test color strips.

16. (previously presented) The hardcopy apparatus of Claim 15, further comprising a means for generating correction factors based on the comparisons from the means for comparing for use by the printing engine.

17. (currently amended) A color measurement system for use with a ~~test pattern~~

ef color strips formed on a print medium, with each of the color strips of a single color, comprising:

an array of photodetectors oriented along an axis ~~that is generally parallel to an orientation of the test color strips, wherein so that as one each test of the color strips passes within view of the array of photodetectors, with each of the photodetectors is positioned to measure a spectral characteristic of a unique one of a plurality of substantially discrete regions of that test the one of the color strips as the test strip passes within view of the censor array; and~~

a means for comparing measured spectral characteristics of the ~~test color strips with intended spectral characteristics of the test color strips.~~

18. (currently amended) The system of Claim 17, further comprising a means for generating correction factors based on the comparisons for use by a printing engine that formed the test color strips.

19. (currently amended) A ~~color measurement~~ method, comprising:

~~forming a test pattern of a color strips of a single color on a print medium; and~~

~~providing an array of photodetectors oriented along an axis that is generally parallel to an orientation of the test stripe;~~
~~urging the print media past the array; and~~
~~for each test strip, using each photodector, of each photodetector in the array of photodetectors oriented along an axis generally parallel to an orientation of the color strip, to measure a spectral characteristic of a one of a plurality of substantially discrete regions, corresponding to the photodector, of that test strip the color strip, as the test color strip passes within view of the array.~~

20. (currently amended) The method of Claim 19, further comprising comparing a measured spectral characteristic of a particular ~~test the color~~ strip with an intended spectral characteristic of ~~that test the color~~ strip.

21. (currently amended) The method of Claim 20, further comprising generating a correction factor based on the comparison comparing for use by a printing engine that formed the particular test color strip.